

# Baton Rouge Community College

## *Academic Affairs Master Syllabus*

Date Approved or Revised: July 25, 2008

**Course Name:** College Algebra and Trigonometry

**Course Number:** MATH 120

**Lecture Hrs.** 5

**Lab Hrs.** 0

**Credit Hrs.** 5

**Course Description:** Serves as a replacement for MATH 101 or 110 and MATH 111 as a preparation for calculus. Offered to students who demonstrate a high proficiency on the appropriate math placement test. Includes quadratic equations, systems of linear equations, inequalities, functions, graphs, exponential, and logarithmic functions, complex numbers, theory of equations, trigonometric functions and identifies, inverse trigonometric functions, graphs, solving triangles and equations, complex numbers, vectors and polar coordinates.

**Prerequisites:** Appropriate placement test score or placement by department

**Co-requisites:** None

**Suggested Enrollment Cap:** 35

**Learning Outcomes:** Upon successful completion of this course, the student will be able to:

- Model and analyze exponential growth and decay, logarithmic growth, linear and polynomial behavior; and
- Model and analyze problems using trigonometric and inverse trigonometric relations.

**General Education Learning Outcomes:** This course supports the development of competency in the following areas. Students will:

- Think critically, collect evidence (statistics, examples, testimony) and make decisions based on the evidence, comprehend and analyze texts, and solve problems using methods of critical and scientific inquiry; and
- Organize, analyze, and develop useful information useful by employing mathematical principles.

**Assessment Measures:** Instructors may use a variety of assessment measures to assess student performance. But, the following assessments will be used in all sections:

- The learning outcomes will be assessed by a comprehensive departmental final exam; and
- Instructor created exams and or homework.

### Information to be included on the Instructors' Course Syllabi:

- **Disability Statement:** Baton Rouge Community College seeks to meet the needs of its students in many ways. See the Office of Disability Services to receive suggestions for disability statements that should be included in each syllabus.
- **Grading:** The College grading policy should be included in the course syllabus. Any special practices should also go here. This should include the instructor's and/or the department's policy for make-up work. For example in a speech course, "Speeches not given on due date will receive no grade higher than a sixty" or "Make-up work will not be accepted after the last day of class."
- **Attendance Policy:** Include the overall attendance policy of the college. Instructors may want to add additional information in individual syllabi to meet the needs of their courses.
- **General Policies:** Instructors' policy on the use of things such as beepers and cell phones and/or hand held programmable calculators should be covered in this section.
- **Cheating and Plagiarism:** This must be included in all syllabi and should include the penalties for incidents in a given class. Students should have a clear idea of what constitutes cheating in a given course.
- **Safety Concerns:** In some programs this may be a major issue. For example, "No student will be allowed in the safety lab without safety glasses." General statements such as, "Items that may be harmful to one's self or others should not be brought to class."
- **Library/ Learning Resources:** Since the development of the total person is part of our mission, assignments in the library and/or the Learning Resources Center should be included to assist students in enhancing skills and in using resources. Students should be encouraged to use the library for reading enjoyment as part of lifelong learning.

### Expanded Course Outline: